ABSTRACT

The present invention discloses a method for data forwarding used in label switching networks, with which, at the source node, sequence numbers are added to the data packets forming an original data flow to be forwarded according to the forwarding order, then the data packets are mapped to label switched paths (LSP) for forwarding; at the destination node, the data packets received from the LSPs are merged into the same data flow as the original data flow to be forwarded according to the order of the sequence numbers. Meanwhile, during the data forwarding in accordance with the invention, an alarm mechanism is used to detect a faulted LSP, and the mapping strategy is adjusted timely to avoid the massive loss of the data packets, which guarantees the security of the data forwarding to the greatest extent while a high bandwidth utilization ratio is ensured.